



OPEN-FILE REPORT  
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.  
OPEN FILE REPORT 78-030  
PLATE 23 OF 44

**EXPLANATION**

NON-FEDERAL COAL LAND—Land for which the Federal Government does not own the coal rights.

**BOUNDARY OF RESERVE BASE COAL**—Drawn along the outcrop of coal bed or the contact between burned and unburned coal where the coal bed is 5 feet (1.5 m) or more thick, and the 5-foot (1.5 m) coal isopach. Arrows point toward area of Reserve Base coal.

**STRIPPING-LIMIT LINE**—Boundary for surface mining of the coal bed (in this quadrangle, the 200-foot-overburden isopach). Arrows point toward the area suitable for surface mining. Recovery factor of 85 percent within that area in this quadrangle.

**IDENTIFIED STRIPPABLE COAL RESOURCES**—Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) x the Recovery Factor (85 percent) = Reserves (R). Rounded to two significant figures.

RB	RB(85%)	(Measured resources)
1.40	1.20	(Indicated resources)
.84	.71	(Inferred resources)

**IDENTIFIED NON-STRIPPABLE COAL RESOURCES**—Showing totals for Reserve Base (RB), in millions of short tons, for each section or part(s) of section of Federal coal land outside the stripping-limit line. Dash indicates no resources in that category. Rounded to two significant figures.

RB	(Measured resources)
.040	(Indicated resources)
	(Inferred resources)

Recovery factors have not been established for underground development of the coal in this quadrangle. Therefore, Reserves (R) were not calculated for the coal bed in areas outside the stripping-limit line where the overburden thickness exceeds 200 feet (61 m).

To convert short tons to metric ton multiply short tons by 0.907.

COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS  
OF THE BIRNEY QUADRANGLE, ROSEBUD COUNTY, MONTANA  
BY  
W. J. MAPEL AND B. K. MARTIN  
1978